

Claims

1) A chain lock for link chains with two lock parts which can be displaced by limited amounts with respect to each other in the longitudinal direction of the lock in order to open and close the lock and in each case have two ends which are connected to each other via a longitudinal web and of which in each case one forms a stud having a retaining web extending over part of the circumference of the stud and one is provided with a recess serving to receive the stud and having a retaining groove for the retaining web, characterized in that the height (H) of the stud (5) and of the recess (6) is essentially equal to the inner width (b_i) of the lock, and in that the stud (5) has a plurality of retaining webs (7, 8) and the recess (6) has a plurality of retaining grooves (13, 14).

2) The chain lock as claimed in claim 1, characterized in that the distance (a and a', respectively) between the retaining webs (7, 8) and the retaining grooves (13, 14) is equal to the width (b_s and b_n , respectively) of the retaining webs (7, 8) and the retaining grooves (13, 14).

3) The chain lock as claimed in claim 1, characterized in that the distance (a and a', respectively) between the retaining webs (7, 8) and the retaining grooves (13, 14) is larger than the width (b_s and b_n , respectively) of the retaining webs (7, 8) and the retaining grooves (13, 14).

4) The chain lock as claimed in one of claims 1 to 3, characterized in that the stud (5) has two retaining webs (7, 8) and the recess (6) has two retaining grooves (13, 14).

5) The chain lock as claimed in one of claims 1 to 3, characterized in that the stud (5) and the recess (6)

are provided with a respective transverse hole (11, 16) serving to receive a securing element, which can also be used for transmission of force.

- 5 6) The chain lock as claimed in one of claims 1 to 5, characterized in that the stud (5) and the recess (6) have a cross section which widens or expands continuously in the longitudinal direction of the lock.
- 10 7) The chain lock as claimed in claim 6, characterized in that the flanks of the retaining webs (7, 8) are of wedge-shaped design and those side wall sections of the retaining grooves (13, 14) which face the flanks of the retaining webs (7, 8) have a bevel
15 corresponding to the wedge angle (α).
- 8) The chain lock as claimed in one of claims 1 to 7, characterized in that the flanks of the stud (5) and the side walls of the recess (6) in each case enclose
20 an angle (α) of 10 to 30°.
- 9) The chain lock as claimed in one of claims 1 to 8, characterized in that the depth (t_n) of the retaining grooves (13, 14), which receive the retaining webs (7,
25 8) essentially without play is 2 to 6 mm.
- 10) The chain lock as claimed in one of claims 1 to 9, characterized in that the height (h_s) of the retaining webs (7, 8) is approximately 2 to 6 mm.